

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/764,391	01/19/2001	Hiroshi Shimanuki	106145-00016	7551
75	690 01/30/2003			
ARENT FOX KINTNER PLOTKIN & KAHN, PLLC Suite 600 1050 Connecticut Avenue, N.W.			EXAMINER	
			BUSHEY, CHARLES S	
Washington, DC 20036-5339			ART UNIT	PAPER NUMBER
			1724	
			DATE MAILED: 01/30/2003	

17

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/764,391	SHIMANUKI ET AL.				
· Office Action Summary	Examiner	Art Unit				
•	Scott Bushey	1724				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on <u>09 L</u>	December 2002 .					
2a)⊠ This action is FINAL . 2b)□ Thi	is action is non-final.					
3) Since this application is in condition for allowards closed in accordance with the practice under a Disposition of Claims						
4) Claim(s) 1-9 is/are pending in the application.						
4a) Of the above claim(s) <u>5 and 7</u> is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>1-4 and 6</u> is/are allowed.						
6)⊠ Claim(s) <u>8 and 9</u> is/are rejected.						
7) Claim(s) is/are objected to.		, f ^{ee}				
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner	•	,				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Exa	aminer.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
 Certified copies of the priority documents 	have been received.					
Certified copies of the priority documents	have been received in Application	on No				
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) ☐ The translation of the foreign language provisional application has been received. 						
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No(s) ratent Application (PTO-152)				

-Application/Control Number: 09/764,391 Page 2

Art Unit: 1724

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of Species D in Paper No. 8 was acknowledged in the previous Office action and is again acknowledged herein. Accordingly, claims 5 and 7, which are drawn to non-elected species are withdrawn from further consideration. Applicant should note that instant claim 1 is not generic as it reads specifically on elected Species D, as depicted by Figure 10 of the application.

Claim Rejections - 35 USC § 112

2. Claims 8 and 9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 8 and 9, line 7 of each, it is unclear as to what applicant intends to claim with respect to the recitation of the phrase, "a diameter longer than that of the hollow fiber membrane".

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any

- Application/Control Number: 09/764,391

Art Unit: 1724

evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over either of Krueger et al or Nakanishi et al, taken in view of applicant's admitted prior art as depicted by Figure 14 of the instant application.

Either of Krueger et al or Nakanishi et al, as applied in the previous Office action substantially disclose applicant's invention as recited by instant claims 8 and 9, except for the materials worked on being a wet air stream flowing on one of the inside or outside of the hollow fibers and a dry air stream being on the other of either the inside or outside of the hollow fibers. The admitted prior art, as depicted by instant Figure 14, teaches that it is known to exchange moisture between air streams where one of the streams flows on the inside of the hollow fibers and the other of the streams flows on the outside of the fibers. It would have been obvious for an artisan at the time of the invention, to operate either of the alternative primary references by inputting an air stream of a first moisture content into the bypass channel of either of the alternative primary references so that the stream would flow on the outside of the hollow fibers, and inputting the other of the air streams having a second moisture content into the interior of the hollow fibers, in view of the admitted prior art, such that the different streams were able to exchange moisture without actually contacting one another, such allowing advantageous moisture exchange without the risk of contaminating one air stream with an unwanted component of the other air stream.

-Application/Control Number: 09/764,391

Art Unit: 1724

Allowable Subject Matter

6. Claims 1-4, and 6 are allowed.

The prior art of record fails to disclose or suggest providing a plurality of outlet ports formed in a circumferential direction on the housing at several intervals and placed the inlet beyond the bypass channel.

Contrary to applicant's remarks, the references to Krueger et al and Nakanishi et al, which were applied in the previous Office action, each clearly teach a bypass channel having multiple perforations along its length to delivery a gas to flow along the outside of the hollow fiber membranes.

Response to Arguments

7. Applicant's arguments with respect to claims 8 and 9 have been considered but are moot in view of the new grounds of rejection. Claims 8 and 9 were newly added by applicant immediately prior to this Office action

Conclusion

8. Applicant's amendment necessitated the new grounds of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

-Application/Control Number: 09/764,391

Art Unit: 1724

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Scott Bushey whose telephone number is (703) 308-3581. The

examiner can normally be reached on Monday-Thursday 6:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David A. Simmons can be reached on (703) 308-1972. The fax phone numbers for

the organization where this application or proceeding is assigned are (703) 305-7718 for regular

communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0661.

Scott Bushey Primary Examiner Art Unit 1724 Page 5

csb

January 28, 2003

1-28-03